

*AMENDMENTS TO THE CLAIMS*

This listing of claims will replace all prior versions, and listings, or claims in the application.

1. – 10. (Cancelled).

11. (Previously presented) An artificial full-thickness corneal transplant support ~~comprising~~ consisting of:

a) a base biopolymer having the thickness of approximately an average cornea, and having the shape of a cornea, with a convex and concave side and suitable for implantation onto a damaged cornea; and

b) the biopolymer having incorporated within it an attachment reagent consisting essentially of one or more of the following compounds: laminin, fibronectin, RGDS (SEQ ID NO: 1), bFGF conjugated with polycarbophil, and EGF conjugated with polycarbophil.

12. (Original) The composition of claim 11, wherein the biopolymer is comprised of collagen IV.

13. (Cancelled)

14. (Previously presented) An artificial half-thickness corneal transplant support comprising:

a) a base biopolymer having the thickness of approximately one half of an average cornea, and having the shape of a cornea, with a convex and concave side and suitable for implantation onto a damaged cornea; and

b) the biopolymer having incorporated within it an attachment reagent consisting essentially of one or more of the following compounds: laminin,

fibronectin, RGDS (SEQ ID NO: 1), bFGF conjugated with polycarbophil, and EGF conjugated with polycarbophil.

15. - 16. (Cancelled).

17. (Previously presented) The artificial corneal transplant support of claim 11, wherein the biopolymer is non-swelling in the presence of culture media.

18. - 26. (Cancelled).

27. (Previously presented) The artificial full-thickness corneal transplant support of claim 11, wherein said biopolymer is coated with diamond like carbon.

28. (Previously presented) The artificial full-thickness corneal transplant of claim 13, wherein said biopolymer is coated with diamond like carbon.